

## **Phase End Project**

### **Taxi Service Automation using TestNG,Jenkins,Docker,AWS**

#### **Step1:**

*Create a maven project and add the dependencies and write the test scripts with chromedriver.exe*

#### **Step2:**

*While running in parallel method the test cases were fast and due to some bugs some of test cases run in the next run .*

#### **Step3:**

*Create a maven jenkins automation give the pom.xml file path and then maven clean and maven test , this creates a automated test in jenkins*

#### **Testng.class**

```
package com.test;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class AutomationofEcommerce {

    public WebDriver driver ;
```

```
public String baseUrl="https://www.flipkart.com/";
```

```
@Test
public void Searchproducts() {
    //Waiting for the page to Load
    try {Thread.sleep(5000);} catch (InterruptedException e)
    {e.printStackTrace(); }
    WebElement
closebtn=driver.findElement(By.xpath("/html/body/div[2]/div/div/button"));closebtn.c
lick();
    WebElement mobiles =
driver.findElement(By.linkText("Mobiles"));mobiles.click();
    WebElement searchbox = driver.findElement(By.name("q"));
    searchbox.sendKeys("iPhone 13");
    WebElement searchbutton =
driver.findElement(By.xpath("/html/body/div/div/div[1]/div[1]/div[2]/div[2]/form/div/
button"));
    searchbutton.click();
}

@Test
public void performancetest() {
    long startTime = System.currentTimeMillis();
    try {Thread.sleep(5000);} catch (InterruptedException e)
    {e.printStackTrace();}
    long pageLoadTime = System.currentTimeMillis() - startTime;
    System.out.println("Page load time: " + pageLoadTime + " milliseconds");
}

@Test
public void loadtest() {
    try {Thread.sleep(5000);} catch (InterruptedException e)
    {e.printStackTrace();}
    java.util.List<WebElement> images =
driver.findElements(By.tagName("img"));
    JavascriptExecutor js = (JavascriptExecutor) driver;
    long viewportHeight = (Long) js.executeScript("return window.innerHeight");
    for (WebElement image : images) {
```

```

        boolean isLoadedAndVisible = (Boolean) js.executeScript("var img =
arguments[0];" + "var rect = img.getBoundingClientRect();" + "return rect.top >= 0
&& rect.bottom <= arguments[1];", image, viewportHeight);
        if (isLoadedAndVisible) {
            System.out.println("Image is loaded and visible within the viewport height: "
+ image.getAttribute("src"));
        } else {
            System.out.println("Image is NOT loaded and visible within the viewport
height: " + image.getAttribute("src"));
        }
    }
}

```

@Test

```

public void scrolltest() {
    Actions scrollpage=new Actions(driver);

```

```

scrollpage.sendKeys(Keys.PAGE_DOWN).sendKeys(Keys.PAGE_DOWN).sendKeys
(Keys.PAGE_DOWN).pause(2000).sendKeys(Keys.PAGE_UP).sendKeys(Keys.PA
GE_UP).build().perform();
}

```

@Test

```

public void imageloadtest() {
    try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
    WebElement imageElement = driver.findElement(By.tagName("img"));
    int imagePositionY = imageElement.getLocation().getY();
    JavascriptExecutor jsExecutor = (JavascriptExecutor) driver;
    jsExecutor.executeScript("window.scrollTo(0, arguments[0]);", imagePositionY);
    try {Thread.sleep(5000);} catch (InterruptedException e) {e.printStackTrace();}
    boolean isImageDisplayed = imageElement.isDisplayed();
    if (isImageDisplayed) {System.out.println("The image is downloaded and
displayed in time.);} else {
        System.out.println("The image is NOT downloaded and displayed in time.");
    }
}
}

```

@Test

```

public void verfiyscrolltest() {
    try {Thread.sleep(5000);} catch (InterruptedException e)
{e.printStackTrace();}
    JavascriptExecutor jsExecutor = (JavascriptExecutor) driver;
    jsExecutor.executeScript("window.scrollTo(0, document.body.scrollHeight);");
    try {Thread.sleep(2000);} catch (InterruptedException e) {e.printStackTrace();}

    long currentPosition = (Long) jsExecutor.executeScript("return window.scrollY;");
    long maxScrollHeight = (Long) jsExecutor.executeScript("return Math.max(
document.body.scrollHeight, document.body.offsetHeight,
document.documentElement.clientHeight, document.documentElement.scrollHeight,
document.documentElement.offsetHeight );");
    if (currentPosition == maxScrollHeight) {
        System.out.println("Navigated to the bottom of the page.");
    } else {
        System.out.println("Did NOT navigate to the bottom of the page.");
    }
}
}

```

@BeforeTest

```
public void beforeTest() {System.out.println("Starting the test..");}
```

@AfterTest

```
public void afterTest() {System.out.println("Finished.");}
```

@BeforeSuite

```
public void beforeSuite() {
```

```

System.setProperty("webdriver.chrome.driver", "C:\\Users\\Swaroop\\Desktop\\Eclipse
Workspace\\chromedriver.exe");

```

```
    driver = new ChromeDriver();
```

```
    driver.get(baseUrl);
```

```
}
```

@AfterSuite

```
public void afterSuite() {
```

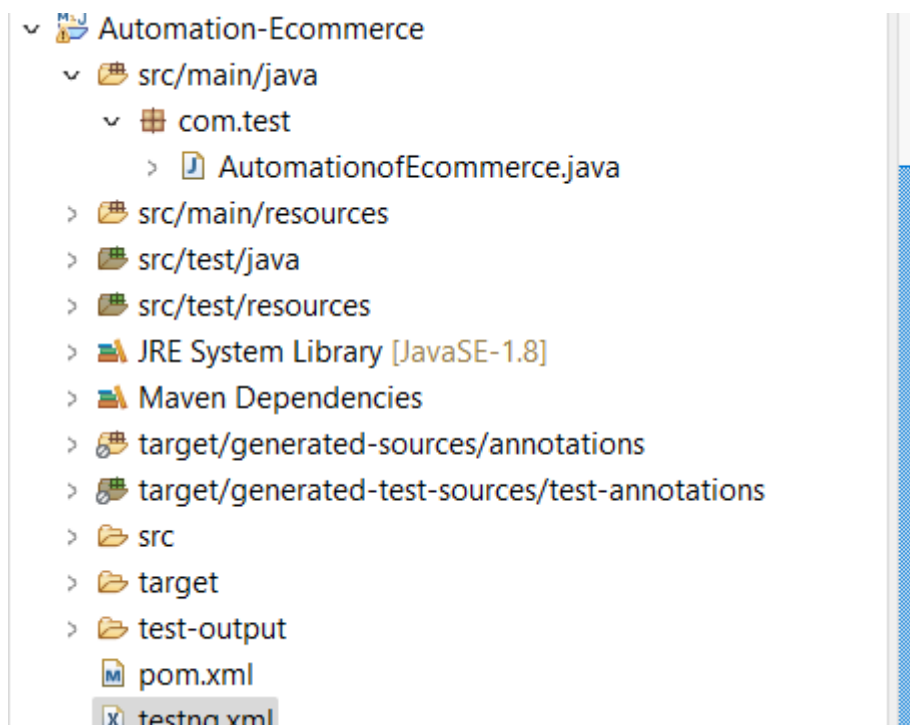
```
    driver.quit();
```

```
}
```

}

## Testng.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
  <test thread-count="5" name="Test" parallel="methods">
    <classes>
      <class name="com.test.AutomationofEcommerce"/>
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```



Search:  Passed: 5 Failed: 1 Skipped: 0 Tests: 1/1

**All Tests** | **Failed Tests** | **Summary**

▼ **Suite ( 5/1/0/0 ) (36.86 s)**

▼ **Test ( 36.86 s)**

▼ **com.test.AutomationofEcommerce**

- scrolltest (2.092 s)
- performancetest (5.023 s)
- Searchproducts (5.102 s)
- loadtest (7.435 s)
- verfiyscrolltest (7.049 s)
- imageloadtest (10.159 s)

Failure Exception

Search:

Passed: 5

All TestsFailed TestsSummary

Suite ( 5/1/0/0 ) (64.794 s)

Test ( 64.794 s)

com.test.AutomationofEcommerce

Searchproducts (6.006 s)

imageloadtest (10.146 s)

loadtest (34.032 s)

performancetest (5.009 s)

scrolltest (2.533 s)

verfiyscrolltest (7.068 s)

(due to some selenium bugs the test cases some test cases pass in the next run)

```

<terminated> Automation-Ecommerce_testng.xml [TestNG] C:\Users\Swaroop\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (31-
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: https://rukminim2.flixcart.com/image/300/300/ktketu80/mobile/a/e/g/iph
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAw
Image is NOT loaded and visible within the viewport height: https://static-assets-web.flixcart.com/fk-p-linchpin-web/fk-cp-zion/in
Page load time: 5007 milliseconds
Finished.

=====
Suite
Total tests run: 6, Passes: 5, Failures: 1, Skips: 0
=====

```

1 suite, 1 failed test	
com.test.AutomationofEcommerce	
Searchproducts	
imageloadtest	
loadtest	
performancetest	
scrolltest	

Times for Suite			
Total running time: 1 minutes			
Number	Method	Class	Time (ms)
0	loadtest	com.test.AutomationofEcommerce	34,032
1	imageloadtest	com.test.AutomationofEcommerce	10,146
2	verfiyscrolltest	com.test.AutomationofEcommerce	7,068
3	Searchproducts	com.test.AutomationofEcommerce	6,006
4	performancetest	com.test.AutomationofEcommerce	5,009
5	scrolltest	com.test.AutomationofEcommerce	2,533

## Enter an item name

AutomationEcommerce

» *Required field*



### Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with



### Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the



### Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building



### Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on



### Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike as they are in different folders.



### Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.



### Organization Folder

Creates a set of multibranch project subfolders by scanning for repositories.

If you create a new item from other existing, you can use this option:

OK



Add pre-build step ▾

Root POM ?

C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\pom.xml

## Goals and options ?

clean test

Advanced ▾

[illegible]

```
150.0.5790.110, setWindowRect: true, strictFileInteratability: false, timeouts: {implicit: 0, pageLoad: 300000, script: 30000}, unhandledPromptBehavior: dismiss and notify, webauthn:extension:credBlob: true, webauthn:extension:largeBlob: true, webauthn:extension:minPinLength: true, webauthn:extension:prf: true, webauthn:virtualAuthenticators: true)
Session ID: 02f0902a0e4c95845a22e3ff8b89911
[INFO]
[ERROR] Tests run: 6, Failures: 1, Errors: 0, Skipped: 0
[INFO]
[ERROR] There are test failures.

Please refer to C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\target\surefire-reports for the individual test results.
Please refer to dump files (if any exist) [date].dump, [date]-jvmRun[N].dump and [date].dumpstream.
[JENKINS] Recording test results
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 03:40 min
[INFO] Finished at: 2023-07-31T21:53:35+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Swaroop\Desktop\EclipseWorkspace\Automation-Ecommerce\pom.xml to Automation-Ecommerce\Automation-Ecommerce\0.0.1-SNAPSHOT\Automation-Ecommerce-0.0.1-SNAPSHOT.pom
channel stopped
Finished: UNSTABLE
```

